



Number : WUXH00028488

Applicant : HOLLYLAND (CHINA) ELECTRONICS TECHNOLOGY CORPORATION LIMITED  
NO.9-19 FANGHU ROAD, HULI, XIAMEN, FUJIAN, CHINA  
Attn : XIONG YING

Date : Feb 03, 2015

Sample Description As Declared:  
One (1) Piece Of Submitted Sample Said To Be :  
Item Name : PTC.

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Tests Conducted:  
As Requested By The Applicant, For Details Refer To Attached Pages

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Prepared And Checked By:  
For Intertek Testing Services Wuxi Ltd.

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Jessica Lu  
General Manager



## Tests Conducted (As Requested By The Applicant)

## 1 ( I ) SVHC Testing Results

## (a) The First List (15 SVHC Released in Oct, 2008)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Cobalt Dichloride Δ	7646-79-9	ND
Diarsenic Pentaoxide Δ	1303-28-2	ND
Diarsenic Trioxide Δ	1327-53-3	ND
Lead Hydrogen Arsenate Δ	7784-40-9	ND
Triethyl Arsenate Δ	15606-95-8	ND
Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND
Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	ND
Anthracene	120-12-7	ND
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	ND
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND
Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	ND
Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )	85535-84-8	ND

## (b) The Second List (13 SVHC Release in Jan, 2010 and Mar, 2010)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Lead Chromate Δ	7758-97-6	ND
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND
Tris (2-Chloroethyl) Phosphate	115-96-8	ND
2,4-Dinitrotoluene	121-14-2	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Coal Tar Pitch, High Temperature	65996-93-2	ND
Anthracene Oil	90640-80-5	ND
Anthracene Oil, Anthracene Paste, Distr. Lights	91995-17-4	ND
Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND
Anthracene Oil, Anthracene-low	90640-82-7	ND
Anthracene Oil, Anthracene Paste	90640-81-6	ND

## Tests Conducted (As Requested By The Applicant)

Acrylamide	79-06-1	ND
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## (c) The Third List (8 SVHC Release in Jun,2010)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Boric Acid Δ	10043-35-3, 11113-50-1	ND
Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	ND
Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	ND
Sodium Chromate Δ	7775-11-3	ND
Potassium Chromate Δ	7789-00-6	ND
Ammonium Dichromate Δ	7789-09-5	ND
Potassium Dichromate Δ	7778-50-9	ND
Trichloroethylene	79-01-6	ND

## (d) The Fourth List (8 SVHC Release in Dec,2010)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
2-Methoxyethanol	109-86-4	ND
2-Ethoxyethanol	110-80-5	ND
Cobalt Sulphate Δ	10124-43-3	ND
Cobalt Dinitrate Δ	10141-05-6	ND
Cobalt Carbonate Δ	513-79-1	ND
Cobalt Diacetate Δ	71-48-7	ND
Chromium Trioxide Δ	1333-82-0	ND
Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	ND

## (e) The Fifth List (7 SVHC Release in Jun, 2011)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Strontium ChromateΔ	7789-06-2	ND
2-ethoxyethyl acetate (2-EEA)	111-15-9	ND
1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	68515-42-4	ND
Hydrazine	7803-57-8 302-01-2	ND
1-methyl-2-pyrrolidone	872-50-4	ND
1,2,3-trichloropropane	96-18-4	ND
1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -	71888-89-6	ND

## Tests Conducted (As Requested By The Applicant)

branched alkyl esters, C <sub>7</sub> -rich (DIHP)		
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## (f) The Sixth List (20 SVHC Release in Dec, 2011)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Lead dipicrate $\Delta$	6477-64-1	ND
Lead styphnate $\Delta$	15245-44-0	ND
Lead azide; Lead diazide $\Delta$	13424-46-9	ND
Phenolphthalein	77-09-8	ND
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND
N,N-dimethylacetamide (DMAC)	127-19-5	ND
Trilead diarsenate $\Delta$	3687-31-8	ND
Calcium arsenate $\Delta$	7778-44-1	ND
Arsenic acid $\Delta$	7778-39-4	ND
Bis(2-methoxyethyl) ether	111-96-6	ND
1,2-Dichloroethane	107-06-2	ND
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND
2-Methoxyaniline; o-Anisidine	90-04-0	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND
Pentazinc chromate octahydroxide $\Delta$	49663-84-5	ND
Potassium hydroxyoctaoxidizincate dichromate $\Delta$	11103-86-9	ND
Dichromium tris(chromate) $\Delta$	24613-89-6	ND
Aluminosilicate Refractory Ceramic Fibres $\Delta$	(Index No. 650-017-00-8)	ND
Zirconia Aluminosilicate Refractory Ceramic Fibres $\Delta$	(Index No. 650-017-00-8)	ND

## (g) The Seventh List (13 SVHC Release in Jun, 2012)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND
Diboron trioxide $\Delta$	1303-86-2	ND
Formamide	75-12-7	ND
Lead(II) bis(methanesulfonate) $\Delta$	17570-76-2	ND
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	ND
$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-	59653-74-6	ND

## Tests Conducted (As Requested By The Applicant)

epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)		
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND
α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND

## (h) The Eighth List (54 SVHC Release in Dec, 2012)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND
Pentacosafuorotridecanoic acid	72629-94-8	ND
Tricosafuorododecanoic acid	307-55-1	ND
Henicosafuoroundecanoic acid	2058-94-8	ND
Heptacosafuorotetradecanoic acid	376-06-7	ND
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7	ND

## Tests Conducted (As Requested By The Applicant)

cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3	
trans-cyclohexane-1,2-dicarboxylic anhydride [3]	14166-21-3	
[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].		
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]	25550-51-0 19438-60-9 48122-14-1 57110-29-9	ND
[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]		
4-Nonylphenol, branched and linear  [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	ND
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	ND
Methoxyacetic acid	625-45-6	ND
N,N-dimethylformamide	68-12-2	ND
Dibutyltin dichloride (DBTC) Δ	683-18-1	ND
Lead monoxide (Lead oxide) Δ	1317-36-8	ND
Orange lead (Lead tetroxide) Δ	1314-41-6	ND

## Tests Conducted (As Requested By The Applicant)

Lead bis(tetrafluoroborate) Δ	13814-96-5	ND
Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND
Lead titanium trioxideΔ	12060-00-3	ND
Lead titanium zirconium oxideΔ	12626-81-2	ND
Silicic acid, lead salt Δ	11120-22-2	ND
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-dopedΔ  [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	ND
1-bromopropane (n-propyl bromide)	106-94-5	ND
Methyloxirane (Propylene oxide)	75-56-9	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND
Diisopentylphthalate (DIPP)	605-50-5	ND
N-pentyl-isopentylphthalate	776297-69-9	ND
1,2-diethoxyethane	629-14-1	ND
Acetic acid, lead salt, basicΔ	51404-69-4	ND
Lead oxide sulfateΔ	12036-76-9	ND
[Phthalato(2-)]dioxotrileadΔ	69011-06-9	ND
Dioxobis(stearato)trileadΔ	12578-12-0	ND
Fatty acids, C16-18, lead saltsΔ	91031-62-8	ND
Lead cyanamideΔ	20837-86-9	ND
Lead dinitrateΔ	10099-74-8	ND
Pentalead tetraoxide sulphateΔ	12065-90-6	ND
Pyrochlore, antimony lead yellowΔ	8012-00-8	ND
Sulfurous acid, lead salt, dibasicΔ	62229-08-7	ND
TetraethylleadΔ	78-00-2	ND
Tetralead trioxide sulphateΔ	12202-17-4	ND
Trilead dioxide phosphonateΔ	12141-20-7	ND
Furan	110-00-9	ND

## Tests Conducted (As Requested By The Applicant)

Diethyl sulphate	64-67-5	ND
Dimethyl sulphate	77-78-1	ND
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND
4,4'-methylenedi-o-toluidine	838-88-0	ND
4,4'-oxydianiline and its salts	101-80-4	ND
4-aminoazobenzene	60-09-3	ND
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND
6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND
Biphenyl-4-ylamine	92-67-1	ND
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND
o-toluidine	95-53-4	ND
N-methylacetamide	79-16-3	ND

## (i) The Ninth List (6 SVHC Release in Jun, 2013)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Cadmium $\Delta$	7440-43-9	ND
Cadmium oxide $\Delta$	1306-19-0	ND
Dipentyl phthalate (DPP)	131-18-0	ND
4-Nonylphenol, branched and linear, ethoxylated  [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--	ND
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND
Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND



## Tests Conducted (As Requested By The Applicant)

## (j) The Tenth List (7 SVHC Release in Dec, 2013)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Cadmium sulphide $\Delta$	1306-23-6	ND
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND
Dihexyl phthalate (DnHP)	84-75-3	ND
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND
Lead di(acetate) $\Delta$	301-04-2	ND
Trixylyl phosphate	25155-23-1	ND

## (k) The Eleventh List (4 SVHC Release in Jun, 2014)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4	ND
Cadmium chloride $\Delta$	10108-64-2	ND
Sodium perborate; Perboric acid, sodium salt $\Delta$	--	ND
Sodium peroxometaborate $\Delta$	7632-04-4	ND

## (l) The Twelfth List (6 SVHC Release in December, 2014)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND
2-benzotriazol-2-yl-4,6-di-tert-butylphenol	3846-71-7	ND



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Tests Conducted (As Requested By The Applicant)

(UV-320)		
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	ND
Cadmium fluoride $\Delta$	7790-79-6	ND
Cadmium sulphate $\Delta$	10124-36-4; 31119-53-6	ND
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--	ND

- SVHC = Substance Of Very High Concern  
ND = Not Detected (The Result Is Less Than The Reporting Limit)  
 $\Delta$  = Determination Was Based On Elemental Analysis. The Content Was Calculated Based On Assumption Of Worst-Case.
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Tests Conducted (As Requested By The Applicant)  
 (II) Testing Methods of SVHC

## (a) The First List (15 SVHC Released in Oct, 2008)

Chemical Substance	Method	Reporting Limit(%)
		Component
Cobalt Dichloride	By microwave digestion and determined by ICP-OES, further combustion and IC confirmation when necessary	0.020
Diarsenic Pentaoxide	By microwave digestion and determined by ICP-OES	0.020
Diarsenic Trioxide		0.020
Lead Hydrogen Arsenate		0.020
Bis(Tributyltin) Oxide (TBTO)		0.020
Triethyl Arsenate		0.020
Sodium Dichromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.020
Anthracene	By solvent extraction and determined by GC-MSD	0.020
4,4'-Diaminodiphenylmethane (MDA)		0.020
Hexabromocyclododecane (HBCDD)		0.020
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)		0.020
Bis(2-Ethylhexyl) Phthalate (DEHP)		0.020
Dibutyl Phthalate (DBP)		0.020
Benzyl Butyl Phthalate (BBP)		0.020
Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )		0.020

## (b) The Second List (13 SVHC Released in Jan, 2010 and Mar, 2010)

Chemical Substance	Method	Reporting limit(%)
		Component
Lead Chromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.020
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104)		0.020
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)		0.020
Tris (2-Chloroethyl) Phosphate	By solvent extraction and determined by GC-MSD	0.020
2,4-Dinitrotoluene		0.020
Diisobutyl Phthalate (DIBP)		0.020
Coal Tar Pitch, High Temperature		0.020
Anthracene Oil		0.020
Anthracene Oil, Anthracene Paste, Distr. Lights		0.020

## Tests Conducted (As Requested By The Applicant)

Anthracene Oil, Anthracene Paste, Anthracene Fraction		0.020
Anthracene Oil, Anthracene-low		0.020
Anthracene Oil, Anthracene paste		0.020
Acrylamide		0.020

## (c) The Third List (8 SVHC Released in Jun, 2010)

Chemical Substance	Method	Reporting limit(%)
		Component
Boric Acid	By microwave digestion and determined by ICP-OES	0.020
Disodium Tetraborate, Anhydrous		0.020
Tetraboron Disodium Heptaoxide, Hydrate		0.020
Sodium Chromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.020
Potassium Chromate		0.020
Ammonium Dichromate		0.020
Potassium Dichromate		0.020
Trichloroethylene	By solvent extraction and determined by GC-MSD	0.020

## (d) The Fourth List (8 SVHC Released in Dec, 2010)

Chemical Substance	Method	Reporting limit(%)
		Component
2-Methoxyethanol	By solvent extraction and determined by GC-MSD	0.020
2-Ethoxyethanol		0.020
Cobalt Sulphate	By microwave digestion and determined by ICP-OES	0.020
Cobalt Dinitrate		0.020
Cobalt Carbonate		0.020
Cobalt Diacetate		0.020
Chromium Trioxide	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.020
Chromic Acid		0.020
Dichromic Acid		
Oligomers Of Chromic Acid And Dichromic Acid		

## (e) The Fifth list (7 SVHC Released in Jun, 2011)

Chemical Substance	Method	Reporting limit(%)
		Component
Strontium Chromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.020
2-ethoxyethyl acetate (2-EEA)	By solvent extraction and	0.020

## Tests Conducted (As Requested By The Applicant)

1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	determined by GC-MSD	0.020
Hydrazine		0.020
1-methyl-2-pyrrolidone		0.020
1,2,3-trichloropropane		0.020
1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP)		0.020

## (f) The Sixth list (20 SVHC Released in Dec, 2011)

Chemical Substance	Method	Reporting limit(%)	
		Component	
Pentazinc chromate octahydroxide	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.020	
Potassium hydroxyoctaoxodizincate di-chromate		0.020	
Dichromium tris(chromate)		0.020	
Lead dipicrate	By microwave digestion and determined by ICP-OES	0.020	
Lead azide; Lead diazide		0.020	
Trilead diarsenate		0.020	
Calcium arsenate		0.020	
Lead styphnate		0.020	
Arsenic acid		0.020	
Aluminosilicate Refractory Ceramic Fibres		0.020	
Zirconia Aluminosilicate Refractory Ceramic Fibres		0.020	
2,2'-dichloro-4,4'-methylenedianiline (MOCA)		By solvent extraction and determined by GC-MSD	0.020
N,N-dimethylacetamide (DMAC)			0.020
Bis(2-methoxyethyl) ether	0.020		
1,2-Dichloroethane	0.020		
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	0.020		
Bis(2-methoxyethyl) phthalate (DMEP)	0.020		
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	0.020		
Phenolphthalein	0.020		
2-Methoxyaniline; o-Anisidine	0.020		

## (g) The Seventh list (13 SVHC Released in Jun, 2012)

Chemical Substance	Method	Reporting limit(%)
		Component
Diboron trioxide	By microwave digestion and	0.020

## Tests Conducted (As Requested By The Applicant)

Lead(II) bis(methanesulfonate)	determined by ICP-OES	0.020
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	By solvent extraction and determined by GC-MSD	0.020
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		0.020
Formamide		0.020
TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)		0.020
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)		0.020
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		0.020
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)		0.020
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		0.020
α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		By solvent extraction and determined by LC-MS/MS
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	0.020	
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	0.020	

## (h) The Eighth List (54 SVHC Release in Dec, 2012)

Chemical Substance	Method	Reporting limit(%)
		Component
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	By solvent extraction and determined by GC-MS	0.020
Pentacosafuorotridecanoic acid	By solvent extraction and determined by LC-MS/MS	0.020
Tricosafuorododecanoic acid		0.020

## Tests Conducted (As Requested By The Applicant)

Henicosafleuroundecanoic acid		0.020
Heptacosafleuroundecanoic acid		0.020
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	By solvent extraction and determined by HPLC-DAD	0.020
Cyclohexane-1,2-dicarboxylic anhydride [1]  cis-cyclohexane-1,2-dicarboxylic anhydride [2]  trans-cyclohexane-1,2-dicarboxylic anhydride [3]  [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].		0.020
Hexahydromethylphthalic anhydride [1],  Hexahydro-4-methylphthalic anhydride [2],  Hexahydro-1-methylphthalic anhydride [3],  Hexahydro-3-methylphthalic anhydride [4]  [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	By solvent extraction and determined by GC-MSD	0.020
4-Nonylphenol, branched and linear  [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		0.020
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  [covering well-defined substances and UVCB substances, polymers and homologues]	By solvent extraction and determined by LC-MS/MS	0.020

## Tests Conducted (As Requested By The Applicant)

Methoxyacetic acid		0.020
Dibutyltin dichloride (DBTC)		0.020
Lead monoxide (Lead oxide)		0.020
Orange lead (Lead tetroxide)		0.020
Lead bis(tetrafluoroborate)		0.020
Trilead bis(carbonate)dihydroxide		0.020
Lead titanium trioxide		0.020
Lead titanium zirconium oxide		0.020
Silicic acid, lead salt		0.020
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped  [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	By microwave digestion and determined by ICP-OES	0.020
N,N-dimethylformamide		0.020
1-bromopropane (n-propyl bromide)		0.020
Methyloxirane (Propylene oxide)		0.020
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	By solvent extraction and determined by GC-MSD	0.020
Diisopentylphthalate (DIPP)		0.020
N-pentyl-isopentylphthalate		0.020
1,2-diethoxyethane		0.020
Acetic acid, lead salt, basic		0.020
Lead oxide sulfate		0.020
[Phthalato(2-)]dioxotrilead		0.020
Dioxobis(stearato)trilead		0.020
Fatty acids, C16-18, lead salts		0.020
Lead cyanamate		0.020
Lead dinitrate	By microwave digestion and determined by ICP-OES	0.020
Pentalead tetraoxide sulphate		0.020
Pyrochlore, antimony lead yellow		0.020
Sulfurous acid, lead salt, dibasic		0.020
Tetraethyllead		0.020
Tetralead trioxide sulphate		0.020
Trilead dioxide phosphonate		0.020
Furan	By solvent extraction and determined by GC-MSD	0.020
Diethyl sulphate		0.020
Dimethyl sulphate		0.020
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		0.020



## Tests Conducted (As Requested By The Applicant)

Dinoseb (6-sec-butyl-2,4-dinitrophenol)		0.020
4,4'-methylenedi-o-toluidine		0.020
4,4'-oxydianiline and its salts		0.020
4-aminoazobenzene		0.020
4-methyl-m-phenylenediamine (toluene-		0.020
6-methoxy-m-toluidine (p-cresidine)		0.020
Biphenyl-4-ylamine		0.020
o-aminoazotoluene [(4-o-tolylazo-o-		0.020
o-toluidine		0.020
N-methylacetamide		0.020

## (i) The Ninth List (6 SVHC Release in Jun, 2013)

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
		<u>Component</u>
Cadmium $\Delta$	By microwave digestion and determined by ICP-OES	0.020
Cadmium oxide $\Delta$		0.020
Dipentyl phthalate (DPP)	By solvent extraction and determined by GC-MSD	0.020
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	By solvent extraction and determined by LC-MS/MS	0.020
Ammonium pentadecafluorooctanoate (APFO)		0.020
Pentadecafluorooctanoic acid (PFOA)		0.020

## (j) The Tenth List (7 SVHC Release in Dec, 2013)

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
		<u>Component</u>
Cadmium sulphide $\Delta$	By microwave digestion and determined by ICP-OES	0.020

## Tests Conducted (As Requested By The Applicant)

Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	By solvent extraction and determined by LC-MS/MS	0.020
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)		0.020
Dihexyl phthalate (DHP)	By solvent extraction and determined by GC-MSD	0.020
Imidazolidine-2-thione (2-imidazoline-2-thiol)		0.020
Lead di(acetate) Δ	By microwave digestion and determined by ICP-OES	0.020
Trixylyl phosphate	By solvent extraction and determined by GC-MSD	0.020

## (k) The Eleventh List (4 SVHC Release in Jun, 2014)

Chemical Substance	Method	Reporting limit(%)
		Component
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	By solvent extraction and determined by GC-MSD	0.020
Cadmium chloride	By microwave digestion and determined by ICP-OES	0.020
Sodium perborate; perboric acid, sodium salt		0.020
Sodium peroxometaborate		0.020

## (l) The Twelfth List (6 SVHC Release in December, 2014)

Chemical Substance	Method	Reporting limit(%)
		Component
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	By solvent extraction and determined by GC-MSD	0.020
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)		0.020

Tests Conducted (As Requested By The Applicant)

2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.020
Cadmium fluoride $\Delta$	By microwave digestion and determined by ICP-OES	0.020
Cadmium sulphate $\Delta$		0.020
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.020

Reporting Limit = Quantitation Limit Of Analyte In Sample

REACH Requirement:

As Per Article 33(1) Of Regulation (EC) No. 1907/2006 (REACH), Recipients Of Product Must Be Provided With Information Of Safe Use If Any Of The Tested Substances (SVHC) Exceeded 0.1% (W/W). A Product Meets The Requirement Of Article 33(1) By Default When No SVHC Exceeds 0.1% (W/W).

Date Sample Received: Jan 26, 2015

Testing Period: Jan 26, 2015 To Jan 29, 2015

Summary: According To Specified Test Processes In This Report, Content Of 161 Substances Of Very High Concern (SVHC) In Candidate List Promulgated By European Chemicals Agency (ECHA), Which Are Defined In Article 57 Of Regulation (EC) No. 1907/2006 (REACH Regulation), Are Less Than 0.1% (W/W) In Submitted Sample.

Tests Conducted (As Requested By The Applicant)

Photo



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